

**SAFETY DATA SHEET****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

|                                          |                |
|------------------------------------------|----------------|
| Trade name or designation of the mixture | F-11 FIBER     |
| Registration number                      | -              |
| Synonyms                                 | None.          |
| Product code                             | 802-0002       |
| Issue date                               | 19-August-2013 |
| Version number                           | 00             |
| Revision date                            | 19-August-2013 |
| Supersedes date                          | -              |

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

|                      |                          |
|----------------------|--------------------------|
| Identified uses      | Industrial Leak Sealant. |
| Uses advised against | None known.              |

**1.3. Details of the supplier of the safety data sheet**

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Manufacturer/Supplier | Team Industrial Services, Inc.                        |
| Address               | Postbus 37 4380 AA Vlissingen 3237<br>The Netherlands |
| Telephone             | +31 (0) 118 48 58 00                                  |
| Fax                   | +31 (0) 118 48 58 86                                  |
| e-mail                | Not available.                                        |
| Contact person        | Not available.                                        |

|                                 |                                  |
|---------------------------------|----------------------------------|
| 1.4. Emergency telephone number | +(61)-290372994, +1 703-527-3887 |
|---------------------------------|----------------------------------|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

**Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary**

|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Physical hazards      | Not classified for physical hazards.                                                                                               |
| Health hazards        | Occupational exposure to the substance or mixture may cause adverse health effects.                                                |
| Environmental hazards | Not classified for hazards to the environment.                                                                                     |
| Specific hazards      | May cause irritation of nose, throat and mucous membranes. Prolonged and repeated overexposure to dust can lead to pneumoconiosis. |
| Main symptoms         | Direct contact with eyes may cause temporary irritation.                                                                           |

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended**

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Hazard pictograms | None.                                                      |
| Signal word       | None.                                                      |
| Hazard statements | The mixture does not meet the criteria for classification. |

**Precautionary statements**

|            |                                                                                |
|------------|--------------------------------------------------------------------------------|
| Prevention | Observe good industrial hygiene practices.                                     |
| Response   | Wash thoroughly after handling.                                                |
| Storage    | Store away from incompatible materials.                                        |
| Disposal   | Dispose of waste and residues in accordance with local authority requirements. |

**Supplemental label information** Not applicable.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name      | %   | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|--------------------|-----|------------------|------------------------|-----------|-------|
| Polyfluoroethylene | 100 | 9002-84-0        | -                      | -         |       |

**Classification:**     **DSD:** -  
                              **CLP:** -

DSD: Directive 67/548/EEC.  
CLP: Regulation No. 1272/2008.

**Composition comments**           All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4: First aid measures

**General information**           Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation**                    Remove victim to fresh air. Get medical attention if symptoms persist.  
**Skin contact**                 Wash area with soap and water. Get medical attention if irritation develops or persists.  
**Eye contact**                 Do not rub eyes. Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.  
**Ingestion**                    Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

**4.2. Most important symptoms and effects, both acute and delayed**     Direct contact with eyes may cause temporary irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**     Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards**           The product is not flammable.

### 5.1. Extinguishing media

**Suitable extinguishing media**     Water spray, foam, dry powder or carbon dioxide.  
**Unsuitable extinguishing media**    No restrictions known.

**5.2. Special hazards arising from the substance or mixture**     During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters**     Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  
**Special fire fighting procedures**     Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**        Avoid inhalation of dust and contact with skin and eyes. Avoid prolonged and repeated contact.  
**For emergency responders**        Use personal protection as recommended in section 8 of the SDS.

**6.2. Environmental precautions**     Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up**     Collect dust using a vacuum cleaner equipped with HEPA filter.

**6.4. Reference to other sections**        For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

|                                                                          |                                                                                                                                                                                    |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1. Precautions for safe handling</b>                                | Avoid inhalation of dust and contact with skin and eyes. Use work methods which minimise dust production. Provide adequate ventilation. Observe good industrial hygiene practices. |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Store in closed original container in a dry place. Keep away from incompatible material.                                                                                           |
| <b>7.3. Specific end use(s)</b>                                          | Industrial Leak Sealant.                                                                                                                                                           |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|                                                   |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| <b>Occupational exposure limits</b>               | No exposure limits noted for ingredient(s).                |
| <b>Biological limit values</b>                    | No biological exposure limits noted for the ingredient(s). |
| <b>Recommended monitoring procedures</b>          | Follow standard monitoring procedures.                     |
| <b>Derived no-effect level (DNEL)</b>             | Not available.                                             |
| <b>Predicted no effect concentrations (PNECs)</b> | Not available.                                             |

### 8.2. Exposure controls

|                                         |                               |
|-----------------------------------------|-------------------------------|
| <b>Appropriate engineering controls</b> | Provide adequate ventilation. |
|-----------------------------------------|-------------------------------|

### Individual protection measures, such as personal protective equipment

|                                        |                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>             | Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.                                                                                                                                                      |
| <b>Eye/face protection</b>             | Risk of contact: Wear approved safety glasses or goggles.                                                                                                                                                                                                                                                    |
| <b>Skin protection</b>                 |                                                                                                                                                                                                                                                                                                              |
| - Hand protection                      | Wear protective gloves.                                                                                                                                                                                                                                                                                      |
| - Other                                | Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.                                                                                                                                      |
| <b>Respiratory protection</b>          | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use respiratory equipment with particle filter, type P2. |
| <b>Thermal hazards</b>                 | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                                |
| <b>Hygiene measures</b>                | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.                                                                                        |
| <b>Environmental exposure controls</b> | Environmental manager must be informed of all major releases.                                                                                                                                                                                                                                                |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| <b>Appearance</b>                                   | Powder or granules. |
| <b>Physical state</b>                               | Solid.              |
| <b>Form</b>                                         | Solid.              |
| <b>Colour</b>                                       | Not available.      |
| <b>Odour</b>                                        | Not applicable.     |
| <b>Odour threshold</b>                              | Not available.      |
| <b>pH</b>                                           | Not available.      |
| <b>Melting point/freezing point</b>                 | Not available.      |
| <b>Initial boiling point and boiling range</b>      | Not applicable.     |
| <b>Flash point</b>                                  | Not applicable.     |
| <b>Evaporation rate</b>                             | Not available.      |
| <b>Flammability (solid, gas)</b>                    | Not available.      |
| <b>Upper/lower flammability or explosive limits</b> |                     |
| <b>Flammability limit - lower (%)</b>               | Not available.      |

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Flammability limit - upper (%)</b>          | Not available.     |
| <b>Vapour pressure</b>                         | Not applicable.    |
| <b>Vapour density</b>                          | Not applicable.    |
| <b>Relative density</b>                        | Not available.     |
| <b>Solubility(ies)</b>                         | Insoluble          |
| <b>Partition coefficient (n-octanol/water)</b> | No data available. |
| <b>Auto-ignition temperature</b>               | Not available.     |
| <b>Decomposition temperature</b>               | Not available.     |
| <b>Viscosity</b>                               | Not available.     |
| <b>Explosive properties</b>                    | Not available.     |
| <b>Oxidizing properties</b>                    | Not available.     |
| <b>9.2. Other information</b>                  |                    |
| <b>Heat of vaporization</b>                    | estimated          |

## SECTION 10: Stability and reactivity

|                                                 |                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>10.1. Reactivity</b>                         | The product is non-reactive under normal conditions of use, storage and transport.                    |
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.                                                           |
| <b>10.3. Possibility of hazardous reactions</b> | Will not occur.                                                                                       |
| <b>10.4. Conditions to avoid</b>                | Avoid dust formation. Heating above 750° F for prolonged periods.                                     |
| <b>10.5. Incompatible materials</b>             | Molten alkali metals. Interhalogen compounds.                                                         |
| <b>10.6. Hazardous decomposition products</b>   | Carbon oxides. Tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, and carbonyl fluoride. |

## SECTION 11: Toxicological information

|                                                           |                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------|
| <b>General information</b>                                | Not available.                                                          |
| <b>Information on likely routes of exposure</b>           |                                                                         |
| <b>Ingestion</b>                                          | May cause discomfort if swallowed.                                      |
| <b>Inhalation</b>                                         | Dust may irritate throat and respiratory system and cause coughing.     |
| <b>Skin contact</b>                                       | Prolonged skin contact may cause irritation.                            |
| <b>Eye contact</b>                                        | Direct contact with eyes may cause temporary irritation.                |
| <b>Symptoms</b>                                           | Direct contact with eyes may cause temporary irritation.                |
| <b>11.1. Information on toxicological effects</b>         |                                                                         |
| <b>Acute toxicity</b>                                     | May cause discomfort if swallowed.                                      |
| <b>Skin corrosion/irritation</b>                          | May cause irritation through mechanical abrasion.                       |
| <b>Serious eye damage/eye irritation</b>                  | May cause irritation through mechanical abrasion.                       |
| <b>Respiratory sensitisation</b>                          | Not available.                                                          |
| <b>Skin sensitisation</b>                                 | Not a skin sensitiser.                                                  |
| <b>Germ cell mutagenicity</b>                             | Not available.                                                          |
| <b>Carcinogenicity</b>                                    | No data available.                                                      |
| <b>Reproductive toxicity</b>                              | None known.                                                             |
| <b>Specific target organ toxicity - single exposure</b>   | Not available.                                                          |
| <b>Specific target organ toxicity - repeated exposure</b> | Not available.                                                          |
| <b>Aspiration hazard</b>                                  | Due to the physical form of the product it is not an aspiration hazard. |
| <b>Mixture versus substance information</b>               | Not available.                                                          |

**Other information** Repeated exposure to high concentrations of dust may adversely affect the lungs. PTFE dust does not accumulate in the body. Following long-term exposure to chemicals formed when PTFE is heated or mechanically ground or cut, fluoride may accumulate in the bones. PTFE resin begins to emit fumes at approximately 315°C. Workers exposed to PTFE fumes produced at 350-380°C (temperatures associated with liberation of hexafluoroethane, perfluoroisobutylene, and octafluorocyclobutene) exhibited symptoms consistent with polymer fume fever at workplace air concentrations of 3.5 mg/m<sup>3</sup> for compounds containing fluorine. Polymer fume fever lasts 1-2 days and is characterized by influenza-like symptoms including fever, chills, and chest tightness.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.2. Persistence and degradability** No data available.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient n-octanol/water (log K<sub>ow</sub>)** No data available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**Mobility in general** The product is insoluble in water and will sediment in water systems.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** The product is not expected to be hazardous to the environment.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations.

**Contaminated packaging** Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

**EU waste code** 16 05 09  
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.

## SECTION 14: Transport information

**ADR**  
Not regulated as dangerous goods.

**RID**  
Not regulated as dangerous goods.

**ADN**  
Not regulated as dangerous goods.

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**  
Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**  
Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**  
Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**  
Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**  
Not regulated.

#### **Other EU regulations**

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**  
Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**  
Not listed.

**Directive 94/33/EC on the protection of young people at work**  
Not listed.

#### **Other regulations**

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 (CLP Regulation) and Directive 67/548/EEC and their amendments respectively. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

#### **National regulations**

Follow national regulation for work with chemical agents.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

#### **List of abbreviations**

DNEL: Derived No-Effect Level.  
PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD: Directive 67/548/EEC.  
CLP: Regulation No. 1272/2008.

#### **References**

Not available.

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

None.

#### **Training information**

Follow training instructions when handling this material.

#### **Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.